

AMENDMENTS TO THE CLAIMS

Please amend Claims 1, 9 through 13, 18, 21, 23, 24, 26, 38 through 40, and 45 to read as follows:

1. (Currently Amended) A television signal receiving apparatus for receiving television signals including broadcast data signals, comprising:

receiver means for receiving the broadcast data signals;

output means for outputting the broadcast data signals, received by said receiver means, to a display device, wherein said display device displays an image including characters and/or pictures generated from the broadcast data signals;

communication means for communicating with an external device connected thereto; and

control means for controlling the image to be displayed on said display device, the control means controls the image to be displayed by executing a script that uses script information received in the broadcast data signals,

~~wherein the script controls the image to be displayed based on results of communication with the external device by said communication means, so that the image to be displayed displays information relating to the external device~~

wherein the script information comprises XML data, and

wherein the script uses a Domain Object Model Application Programming Interface to (a) receive results of communication with the external device by said communication means, and (b) control the image to be displayed based on the results of communication with the

external device so that the image to be displayed displays information relating to the external device.

2. (Original) An apparatus according to claim 1, wherein the data of the broadcast data signals includes display control data for use by said control means to modify the image displayed on said display device.

3. (Original) An apparatus according to claim 2, wherein the display control data comprises display layout information of the image to be displayed on said display device and script information for displaying the image on said display device.

4 . (Original) An apparatus according to claim 3, wherein the script information is associated with the results of communication, and
wherein said control means performs control to select the script information responsive to the results of communication and to perform a display process represented by the script information.

5. (Original) An apparatus according to claim 1, wherein said control means controls the output means so that a portion of the broadcast data signals is selectively output to said display device in response to the results of communication.

6. (Original) An apparatus according to claim 1, wherein the data of the broadcast data signals includes at least one of moving-picture data, still-picture data, audio data, character data, and control command data.

7. (Original) An apparatus according to claim 6, wherein the character data is described in a markup language, and includes display layout information of the image displayed on said display device, and script information for displaying the image on said display device.

8. (Cancelled)

9. (Currently Amended) An apparatus according to claim 1, wherein said control means starts controlling said display device based on a notification from said communication means notifying that ~~said~~ the external device has been connected thereto and has started communications.

10. (Currently Amended) An apparatus according to claim 1, wherein said control means controls said communication means to transmit a command querying the status of ~~said~~ the external device, and controls said display device so that the displayed image is changed in response to data from ~~said~~ the external device.

11. (Currently Amended) An apparatus according to claim 1, wherein said control means controls said display device so that the image displayed on said display device is changed in response to an event content of an event command received from ~~said~~ the external device through ~~the~~ said communication means.

12. (Currently Amended) An apparatus according to claim 1, wherein ~~said~~ the external device comprises a printer device.

13. (Currently Amended) A television signal receiving apparatus for receiving television signals including broadcast data signals, comprising:

receiver means for receiving the broadcast data signals;

display means for displaying a plurality of images including an image relating to the broadcast data signals received from said receiver means;

print data output means for creating print data based on the broadcast data signals and for outputting the print data to a printer device; and

display control means for monitoring a status of said printer device and for changing a display content to be presented on said display means in accordance with the status of said printer device,

wherein said display means obtains display layout information comprising a cascading style sheet from the broadcast data signals and displays the plurality of images in accordance with the display layout information obtained from the broadcast data signals, and

wherein said print data output means obtains separate from the display layout information, print layout information comprising a style definition from the broadcast data

signals and creates the print data in accordance with the print layout information obtained from the broadcast data signals.

14. (Original) An apparatus according to claim 13, wherein data of broadcast data signals include at least one of moving-picture data, still-picture data, audio data, and character data.

15. (Original) An apparatus according to claim 14, wherein the character data is described in a markup language, and includes display layout information of an image to be displayed on said display device, print layout information of an image to be printed out on said printer device, and script information for displaying the image on said display device.

16. (Original) An apparatus according to claim 14, wherein said display control means monitors states of said printer device including, at least, one of a printing state, a print halted state, and an error state, and controls said display means so as to display at least one of the character data, the still-picture data, and the moving-picture data in response to the states.

17. (Cancelled)

18. (Currently Amended) A broadcast data receiving and reproducing apparatus for receiving broadcast data and for presenting a variety of displays of data including the broadcast data, comprising:

print data output means for forming print data based on the broadcast data and for outputting the print data to a printer device;

communication means for communication with the printer device;

control means for controlling said apparatus by executing a script that uses script information received in the broadcast data,

~~wherein the script controls said apparatus based on results of communication with the printer device by said communication means;~~

wherein the script information comprises XML data, and

wherein the script uses a Domain Object Model Application Programming Interface to (a) receive results of communication with the printer device by said communication means and (b) control an image to be displayed by said apparatus based on the results of communication with the printer device so that the image to be displayed displays information relating to the printer device.

19. (Original) An apparatus according to claim 18, further comprising:

receiver means for receiving the broadcast data;

acquisition means responsive to the broadcast data for acquiring moving-picture data, audio data, and still-picture data multiplexed on a data broadcasting radio wave, character information described in a markup language, and markup text data including layout information and the script information;

storage means for storing the acquired data; and

display control means which generates display data based on the broadcast data and controls a display means so as to display the display data.

20. (Original) An apparatus according to claim 19, wherein the layout information comprises at least print layout information and display layout information, said print data output means forms the print data based on the print layout information, and said display control means generates the display data based on the display layout information.

21. (Currently Amended) An apparatus according to claim 18, wherein said control means controls said apparatus so as to execute the script in response to a communication command reporting, output from ~~said~~ the printer device to said communication means, based on a status of ~~said~~ the printer device.

22. (Original) An apparatus according to claim 21, wherein said communication command reporting includes at least one of a print completed state, a print halted state, and an error state of the printer device.

23. (Currently Amended) An apparatus according to claim 18, wherein said control means ~~start~~ starts controlling of execution of the script in response to a notification from said communication means notifying that ~~said~~ the printer device has been connected thereto and has started communication.

24. (Currently Amended) An apparatus according to claim 18, wherein the broadcast data includes information associating a status of ~~said~~ the printer device with the script.

25. (Cancelled)

26. (Currently Amended) A television signal receiving method for receiving television signals including broadcast data signals, comprising the steps of:

receiving the broadcast data signals;

outputting the broadcast data signals received in the receiving step to a display device, wherein the display device displays an image including characters and/or pictures generated from the broadcast data signals;

communicating with an external device connected thereto; and

performing controlled modification of the image to be displayed on the display device by executing a script that uses script information received in the broadcast data signals,

~~wherein the script performs controlled modification of the image to be displayed based on results of communication with the external device in said communication step, so that the image to be displayed displays information relating to the external device~~

wherein the script information comprises XML data, and

wherein the script uses a Domain Object Model Application Programming Interface to (a) receive results of communication with the external device in said communicating step and (b) perform controlled modification of the image to be displayed based on the results of communication with the external device so that the controlled modification results in display of information relating to the external device.

27-37. (Cancelled)

38. (Currently Amended) A broadcast data receiving and reproducing system comprising a broadcast data receiving and reproducing apparatus for receiving broadcast data and

for presenting a variety of displays of data including the broadcast data, and an external device with which the broadcast data receiving and reproducing apparatus communicates,

wherein the broadcast data receiving and reproducing apparatus comprises:

receiver means for receiving data broadcasting radio waves,

acquisition means for acquiring at least one of moving-picture data, audio data, still-picture data, and character data multiplexed on the data broadcasting radio waves,

display means for displaying a variety of displays including the data acquired by the acquisition means,

communication means for communicating with the external device, and

display control means for controlling said display means to change the display content on said display means by executing a script that uses script information received from the data broadcasting radio waves,

~~wherein the script controls said display means to change the display content on said display means based on results of communications with the external device by said communication means, so that the display content on said display means displays information relating to the external device~~

wherein the script information comprises XML data, and

wherein the script uses a Domain Object Model Application Programming Interface to (a) receive results of communication with the external device by said communication means and (b) control said display means to change the display content based on the results of communication with the external device so that the display content displays information relating to the external device.

39. (Currently Amended) A broadcast data receiving and reproducing system comprising a broadcast data receiving and reproducing apparatus for receiving broadcast data and for presenting a variety of displays of data including the broadcast data, and a printer device with which the broadcast data receiving and reproducing apparatus communicates, wherein the broadcast data receiving and reproducing apparatus comprises:

receiver means for receiving data broadcasting radio waves,

acquisition means for acquiring at least one of moving-picture data, audio data, still-picture data, and character data multiplexed on the data broadcasting radio waves,

display means for displaying a variety of displays including the data acquired by said acquisition means, wherein said display means displays the data acquired by said acquisition means in accordance with display layout information comprising a cascading style sheet obtained from the data broadcasting radio waves,

communication means for communicating with said printer device,

print data output means for forming print data based on stored data, and outputting the print data to said printer device, and

display control means which monitors the status of said printer device, and changes the display content on said display means based on a state of said printer device,

wherein said print data output means obtains, separate from the display layout information, print layout information comprising a style definition from the data broadcasting radio waves and forms the print data in accordance with the print layout information obtained from the data broadcasting radio waves.

40. (Currently Amended) A television signal receiving apparatus for receiving broadcast television signals including data signals, representing an image including characters and/or pictures, comprising:

a receiver;

a display device in communication with said receiver by a signal outputter;

a communicator connected to an external device; and

a controller in communication with said communicator,

wherein said receiver receives the data signals, said outputter outputs the data signals, received by said receiver, to said display device, said display device displays an image including characters and/or pictures generated from the data signals, and said controller controls the image to be displayed on said display device by executing a script that uses script information received in the data signals,

~~the script controls the image to be displayed based on results of communication with the external device by said communicator, so that the image to be displayed displays information relating to the external device~~

wherein the script information comprises XML data, and

wherein the script uses a Domain Object Model Application Programming Interface to (a) receive results of communication with the external device by said communicator and (b) control the image to be displayed based on the results of communication with the external device that the image to be displayed displays information relating to the external device.

41. (Previously Presented) An apparatus according to claim 1, wherein said control means comprises (a) determining means for determining, in accordance with communication by said communication means, whether the external device has a printing function, and (b) means for controlling the image to be displayed on said display device in accordance with the determination by said determining means.

42. (Previously Presented) A method according to claim 26, wherein said controlled modification step comprises (a) a step of determining, in accordance with communication of said communicating step, whether the external device has a printing function, and (b) a step of modifying the image to be displayed on the display device in accordance with the determination by said determining step.

43. (Previously Presented) A system according to claim 38, wherein said display control means comprises (a) determining means for determining, in accordance with communication by said communication means, whether the external device has a printing function, and (b) means for controlling said display means to change the display content on said display means in accordance with the determination by said determining means.

44. (Previously Presented) An apparatus according to claim 40, wherein said controller comprises (a) a determining unit that determines, in accordance with communication by said communicator, whether the external device has a printing function, and (b) a controlling unit that controls the image to be displayed on said display device in accordance with the determination by said determining unit.

45. (Currently Amended) A method for receiving broadcast data and for presenting a variety of displays of data including the broadcast data, said method comprising:

- a print data output step of forming print data based on the broadcast data and for outputting the print data to a printer device;
- a communication step of communicating with the printer device; and
- a control step of controlling an apparatus by executing a script that uses script information received in the broadcast data,

~~wherein the script controls the apparatus based on results of communication in the communication step~~

wherein the script information comprises XML data, and

wherein the script uses a Domain Object Model Application Programming Interface to (a) receive results of communication with the printer device in said communication step and (b) control the apparatus based on the results of communication with the printer device so that an image to be displayed displays information relating to the printer device.